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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,605	09/16/2003	Robert T. Bigelow	BA-U-SIM-00010 6384	
75	90 05/11/2006		EXAMINER	
Franklin E. Gibbs, Esq.			SAADAT, CAMERON	
	Bigelow Aerospace 1899 W. Brooks Avenue		ART UNIT	PAPER NUMBER
Las Vegas, NV	89032		3715	
			DATE MAILED: 05/11/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/665,605	BIGELOW, ROBERT T.				
Office Action Summary	Examiner	Art Unit				
	Cameron Saadat	3715				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become ABA	ATION. ply be timely filed  THS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>_</u> .					
,	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	,	•				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-15	52.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) All b) Some * c) None of:	,,	( ) ( )				
1. Certified copies of the priority documen	its have been received.					
2. Certified copies of the priority documen	its have been received in Ap	oplication No				
3. Copies of the certified copies of the price	ority documents have been	received in this National Stage	е			
application from the International Burea	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a lis	t of the certified copies not i	eceived.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) )/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 9/16/2003.		formal Patent Application (PTO-152)				

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## **DETAILED ACTION**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raboin et al. (USPN 6,547,189; hereinafter Raboin) in view of Taylor (USPN 6,439,508).

Regarding claims 1, and 17-19 Raboin discloses a modular human habitat system comprising: a housing having a rigid wall defining an internal volume 100, a longitudinal axis, first and second opening 106 being opposed along the longitudinal axis (Col. 6, lines 55-66; Col. 10, lines 24-29), an external surface, and the rigid wall having an interior surface of generally the shape of a deployed inflatable shell 200, and the internal volume being substantially that of a deployed inflatable modular human habitat volume; a first distal enclosure having a first and second end 106 being opposed along a longitudinal axis, a first aperture on the first end and a second aperture on the second end forming a passage therethrough, and the first distal enclosure is connected to the housing such that the passage aligns with the first opening of the housing thereby providing access to the internal volume (See Fig. 1); and a second distal enclosure having a first end and a second end being opposed along a longitudinal axis, a hollow interior, and a first

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opening on the first end and the second distal enclosure being connected to the housing such that a passageway is formed between the hollow interior and the internal volume. See Col. 21, lines 2-18; Fig. 1. Raboin discloses all of the claimed subject matter with the exception of explicitly disclosing that the modular human habitat system is a simulator. However, Taylor teaches that it is well known to fabricate a human habitat system in a prototype design and in order to provide testing in a simulated environment (Col. 6, lines 34-38). Thus, in view of Taylor, it would have been obvious to one of ordinary skill in the art to modify the human habitat system described in Raboin, by testing the system in a simulated environment, in order to discover necessary modifications before actual deployment.

Regarding claim 2, Raboin discloses a modular human habitat system further comprising at least one longeron fixedly attached to, and extending from, the first distal enclosure through the internal volume and fixedly attached to the second distal enclosure. Col. 6, lines 55-65.

Regarding claim 3, Raboin discloses a modular human habitat system further comprising at least one window extending through the rigid wall into the internal volume. See Col. 26, lines 55-65.

Regarding claim 4, Raboin discloses a modular human habitat system further comprising an opening on the second end of through the second distal enclosure thereby forming a passage to the internal volume. See Col. 28, lines 34-43.

Regarding claim 5, Raboin discloses a modular human habitat system further including a portion of a simulated debris shield fixedly attached to the external surface. Col. 24, line 66 – Col. 25, line 10.

Regarding claim 6, Raboin discloses a modular human habitat system further including a plurality of simulated water bags fixedly attached to the interior surface. See Col. 7, lines 38-56.

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Regarding claim 7, Raboin discloses a modular human habitat system further comprising; a floor structure; means for supporting the floor structure; and the floor structure extending substantially the length of the longitudinal axis and substantially dividing the internal volume into an upper internal space and a lower internal space. Col. 9, lines 1-63.

Regarding claim 8, Raboin discloses a modular human habitat system further comprising at least one access opening 104 in the floor structure. See Fig. 9.

Regarding claim 9, Raboin discloses a modular human habitat system further comprising; a plurality of floor structures; means for supporting the plurality of floor structure; and the plurality of floor structures extending substantially the length of the longitudinal axis and substantially dividing the internal volume into a plurality of internal spaces. See Col. 9, lines 1-63; Figs. 8-9.

Regarding claim 10, Raboin discloses a modular human habitat system further comprising at least one access opening 104 in at least one floor structure. See Fig. 9.

Regarding claim 11, Raboin discloses a modular human habitat system further including a plurality of cylinders disposed within, and fixedly attached to, the first distal enclosure. Col. 20, lines 51-65; Col. 6, lines 55-65.

Regarding claim 12, Raboin discloses a modular human habitat system further including a plurality of cylinders disposed within, and fixedly attached to, the second distal enclosure. Col. 20, lines 51-65; Col. 6, lines 55-65.

Regarding claim 13, Raboin discloses a modular human habitat system further including a plurality of cylinders disposed along, and fixedly attached to, the external surface of the first distal enclosure. Col. 6, lines 55-65; Col. 20, lines 51-65.

Regarding claim 14, Raboin discloses a modular human habitat system further including a plurality of cylinders disposed along, and fixedly attached to, the external surface of the second distal enclosure. Col. 6, lines 55-65; Col. 20, lines 51-65.

Regarding claim 15, Raboin discloses a modular human habitat system further including a plurality of simulated panels fixedly attached to the interior surface. See Fig. 1.

Regarding claim 16, Raboin discloses a modular human habitat system further including a plurality of cylinders fixedly attached to the interior surface. Col. 6, lines 55-65; Col. 20, lines 51-65.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cameron Saadat whose telephone number is (571) 272-4443. The examiner can normally be reached on M-F 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Olszewski can be reached on (571)272-6788. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cameron Saadat May 1, 2006 JOHN M. HOTALING, II PRIMARY EXAMINER